



PATENT
Docket No.: 2809/1331

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants :	Molino et al.)	Examiner:
)	Marcela M. Cordero
Serial No. :	10/802,013)	Garcia
)	
Cnfrm. No. :	4932)	Art Unit:
)	1654
Filed :	March 16, 2004)	
)	
For :	NOVEL CYCLOSPORINS)	

**FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97-1.98**

Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97-1.98, applicants hereby bring to the attention of the U.S. Patent and Trademark Office, the references listed on the attached PTO/SB/08A form.

Pursuant to 37 C.F.R. § 1.98(a)(2)(ii), copies of the cited U.S. patent and patent application publications (i.e., Reference Cite Nos. 1-21) are not enclosed. Copies of the other listed references (i.e., Reference Cite Nos. 22-277) are enclosed herewith.

Pursuant to 37 C.F.R. §§ 1.17(p) and 1.97(c), enclosed is a check to cover the required \$180.00 filing fee. The Commissioner is hereby authorized to charge any additional fees, or credit any overpayment to Deposit Account No. 14-1138.

Respectfully submitted,

Date: October 17, 2006

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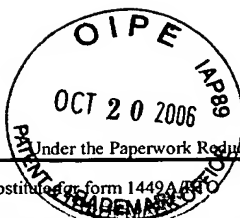
**CERTIFICATE OF MAILING OR TRANSMISSION [37
CFR § 1.8(a)]**

I hereby certify that this correspondence is being:

- ☒ deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

October 17, 2006
Date

Ruth R. Smith
Ruth R. Smith



Substituted for form 1449 A (Rev. 10/01) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known				
				Application Number		10/802,013		
				Filing Date		March 16, 2004		
				First Named Inventor		Molino		
				Art Unit		1654		
				Examiner Name		Marcela M. Cordero Garcia		
				Attorney Docket Number		2809/1331		
Sheet	1	of	19					
U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		Number - Kind Code ² (if known)						
	1	US-4,210,581		07-01-1980	Riegger et al.			
	2	US-4,727,035		02-23-1988	Mahoney			
	3	US-5,318,901		06-07-1994	Patchett et al.			
	4	US-5,834,266		11-10-1998	Crabtree et al.			
	5	US-5,840,900		11-24-1998	Greenwald et al.			
	6	US-5,846,514		12-08-1998	Foster et al.			
	7	US-5,869,337		02-09-1999	Crabtree et al.			
	8	US-6,998,385		02-14-2006	Naicker et al.			
	9	US-7,012,064 B2		03-14-2006	Or et al.			
	10	US-7,012,065 B2		03-14-2006	Or et al.			
	11	US-7,060,672 B2		06-13-2006	Naicker et al.			
	12	US-2002/0128470 A1		09-12-2002	Fuenfschilling et al.			
	13	US-2002/0127198 A1		09-12-2002	Rothbard et al.			
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	16	US-2006/0035821 A1		02-16-2006	Hunt et al.			
	17	US-2006/0035822 A1		02-16-2006	Hunt et al.			
	18	US-2006/0052290 A1		03-09-2006	Naicker et al.			
	19	US-2006/0074015 A1		04-06-2006	Molino et al.			
	20	US-2006/0135414 A1		06-22-2006	Naicker et al.			
	21	US-2006/0217309		09-28-2003	Naicker et al.			
FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		T ⁶
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)					
	22	BR	9603738-5 A	05-26-1998	Boelsterli et al.			Abstract only
	23	CA	1106303 A2	08-04-1981	Sandoz A.-G.			Abstract only
	24	CA	1292962 C	12-10-1991	Marshall			Abstract only
	25	CA	2076291 AA	02-20-1993	Syntex (U.S.A.) Inc.			Abstract only
	26	CA	2086267 AA	06-25-1994	University of Western Ontario			Abstract only
	27	CA	2096892 A	11-26-1993	Szanya			Abstract only
	28	CH	628872 A	03-31-1982	Sandoz A.-G.			Abstract only
	29	CH	630061 A	05-28-1982	Sandoz A.-G.			Abstract only
Examiner Signature					Date Considered			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known			
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				First Named Inventor	Molino		
				Art Unit	1654		
Examiner Name	Marcela M. Cordero Garcia		Attorney Docket Number	2809/1331			
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	30	CH	630062 A	05-28-1982	Sandoz A.-G.		Abstract only
	31	CH	637123 A	07-15-1983	Sandoz A.-G.		Abstract only
	32	CH	640520 A	01-13-1984	Sandoz, Inc.		Abstract only
	33	CS	277471 B6	03-17-1993	Czech Rep.		Abstract only
	34	CS	277472 B6	03-17-1993	Czech Rep.		Abstract only
	35	CZ	280552 B6	02-14-1996	Galena		Abstract only
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	37	DD	285793 A5	01-03-1991	VEB Arzneimittelwerk		Abstract only
	38	DD	295245 A5	10-24-1991	Humboldt-Universitaet zu Berlin		Abstract only
	39	DD	295870 A	11-14-1991	Arzneimittelw Dresd		Abstract only
	40	DD	295871 A	11-14-1991	Arzneimittelw Dresd		Abstract only
	41	DE	2455859 A1	06-12-1975	Sandoz-Patent-G.m.b.H.		Abstract only
	42	DE	2648121 A1	05-12-1977	Sandoz-Patent-G.m.b.H.		Abstract only
	43	DE	2819094 A1	11-23-1978	Sandoz-Patent-G.m.b.H.		Abstract only
	44	DE	4032268 A1	04-16-1992	Boehringer Ingelheim, Kg		Abstract only
	45	DE	4236237 A1	04-28-1994	Behringwerke AG		Abstract only
	46	DE	19933173 A1	01-18-2001	Merck Patent G.m.b.H.		Abstract only
	47	DE	102004011988 A1	09-22-2005	Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V.		Abstract only
	48	EP	283801 A2	09-28-1988	Abbott Laboratories		Abstract only
	49	EP	300785 A2	01-25-1989	National Research Development Corp.		Abstract only
Examiner Signature					Date Considered		

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
	50	EP	375454 A1	06-27-1990	du Pont de Nemours, E. I., and Co.		Abstract only
	51	EP	444897 A1	09-04-1991	Merck and Co., Inc.		Abstract only
	52	EP	471295 A1	02-19-1992	Abbott Laboratories		Abstract only
	53	EP	473961 A2	03-11-1992	Abbott Laboratories		Abstract only
	54	EP	487289 A2	05-27-1992	Syntex (U.S.A.) Inc.		Abstract only
	55	EP	642799 A1	03-15-1995	Behringwerke Aktiengesellschaft		Abstract only
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	57	FR	2757520 A1	06-26-1998	Rhone-Poulenc Rorer SA		Abstract only
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	60	FR	2851471 A1	08-27-2004	Syntem		Abstract only
	61	GB	2205317 A1	12-07-1988	Merck and Co., Inc.		Abstract only
	62	GB	2206119 A1	12-29-1988	Merck and Co., Inc.		Abstract only
	63	GB	2207678 A1	02-08-1989	Merck and Co., Inc.		Abstract only
	64	GB	2212499 A1	07-26-1989	Merck and Co., Inc.		Abstract only
	65	GB	2227244 A1	07-25-1990	Merck and Co., Inc.		Abstract only
	66	JP	57063093 A2	04-16-1982	Mitsubishi Chemical Industries Co., Ltd.		Abstract only
	67	JP	05271267 A2	10-19-1993	Fujisawa Pharmaceutical Co.		Abstract only
	68	JP	07278187 A2	10-24-1995	Nippon Shinyaku Co. Ltd.		Abstract only
	69	JP	10279596 A2	10-20-1998	Nippon Shinyaku Co. Ltd.		Abstract only
	70	JP	2002080394 A2	03-19-2002	LG Chemical Co., Ltd.		Abstract only
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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
	71	JP	2005198543 A2	07-28-2005	Mercian Corp.		Abstract only
	72	JP	2005325061 A2	11-24-2005	Nippon Rikagaku Yakuhin Co., Ltd.		Abstract only
	73	KR	161664 B1	11-16-1998	Cheil Foods and Chemicals Co., Ltd.		Abstract only
	74	KR	2002089300 A	11-29-2002	LG Household & Health Care Ltd.		Abstract only
	75	RU	2144017 C1	01-10-2000	Institut Molekulyarnoi Genetiki RAN		Abstract only
	76	WO	1990/006763	06-28-1990	The Trustees of Columbia University in the City of New York		
	77	WO	1992/006998	04-30-1992	Boehringer Ingelheim International GMBH		Abstract only
	78	WO	1992/013094	08-06-1992	Fujisawa Pharmaceutical Co., Ltd.		Abstract only
	79	WO	1992/013569	08-20-1992	Galena		
	80	WO	1993/007150	04-15-1993	Sandoz-Erfindungen Verwaltungsgesellschaft M.B.H.		
	81	WO	1994/018317	08-18-1994	The Board of Trustees of the Leland Stanford Junior University		
	82	WO	1994/025606	11-10-1994	Sandoz-Patent GMBH		Abstract only
	83	WO	1995/002684	01-26-1995	The Board of Trustees of the Leland Stanford Junior University		
	84	WO	1996/006111	02-29-1996	Ariad Gene Therapeutics, Inc.		
	85	WO	1996/006857	03-07-1996	Wisconsin Alumni Research Foundation		
	86	WO	1996/027607	09-12-1996	Leiras Oy Lundell		
	87	WO	1996/040758	12-19-1996	Abbott Laboratories		
	88	WO	1997/004005	02-06-1997	C-Chem AG		Abstract only
	89	WO	1997/011092	03-27-1997	Nippon Shinyaku Co., Ltd.		Abstract only
	90	WO	1997/046575	12-11-1997	Poli Industria Chimica, S.P.A.		
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		Country Code ³	Number ⁴ <i>(if known)</i>				
	91	WO	1998/003192	01-29-1998	Intrabiotics Pharmaceuticals, Inc.		
	92	WO	1998/007713	02-26-1998	Enzon, Inc.		
	93	WO	1998/008956	03-05-1998	President and Fellows of Harvard College		
	94	WO	1998/046247	10-22-1998	Wisconsin Alumni Research Foundation		
	95	WO	1998/049193	11-05-1998	Rhone-Poulenc Rorer S.A.		Abstract only
	96	WO	1998/058927	12-30-1998	Baker Norton Pharmaceuticals, Inc.		
	97	WO	1999/002659	01-21-1999	Biochemie Gesellschaft M.B.H.		
	98	WO	1999/010373	03-04-1999	Wisconsin Alumni Research Foundation		
	99	WO	1999/010374	03-04-1999	Wisconsin Alumni Research Foundation		
	100	WO	1999/021879	05-06-1999	Intrabiotics Pharmaceuticals, Inc.		
	101	WO	1999/032512	07-01-1999	Rhone-Poulenc Rorer S.A.		Abstract only
	102	WO	1999/062540	12-09-1999	Novartis AG		
	103	WO	1999/067280	12-29-1999	Rhone-Poulenc Rorer S.A.		Abstract only
	104	WO	2000/001715	01-13-2000	Debiopharm S.A.		Abstract only
	105	WO	2000/008033	02-17-2000	The University of Kansas		
	106	WO	2000/051558	09-08-2000	The Procter & Gamble Company		
	107	WO	2000/067801	11-16-2000	University of Kentucky Research Foundation		
	108	WO	2001/005819 A1	01-25-2001	Kuhnle Pharm. Co., Ltd.		
	109	WO	2001/013957 A2	03-01-2001	Cellgate, Inc.		
	110	WO	2001/035913 A1	05-25-2001	LG Chemical Co., Ltd.		
	111	WO	2001/035914 A1	05-25-2001	LG Chemical Co., Ltd.		
	112	WO	2002/024865 A2	03-28-2002	Microbia, Inc.		
	113	WO	2002/041858 A1	05-30-2002	LG Household & Health Care Ltd.		
	114	WO	2002/041859 A1	05-30-2002	LG Household & Health Care Ltd.		
	115	WO	2002/064106 A1	08-22-2002	LG Household & Health Care Ltd.		
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		Country Code ³ Number ⁴ (if known)				
	116	WO 2002/065986 A2	08-29-2002	Cellgate, Inc.		
	117	WO 2002/067917 A1	09-06-2002	Cellgate, Inc.		
	118	WO 2002/076927 A2	10-03-2002	Bayer Aktiengesellschaft		Abstract only
	119	WO 2002/085928 A2	10-31-2002	Debiopharm S.A.		Abstract only
	120	WO 2002/092032 A1	11-21-2002	LG Household & Health Care Ltd.		
	121	WO 2002/092033 A1	11-21-2002	LG Household & Health Care Ltd.		
	122	WO 2003/034980 A2	05-01-2003	New River Pharmaceuticals Inc.		
	123	WO 2003/049772 A2	06-19-2003	The Board of Trustees of the Leland Stanford Junior University		
	124	WO 2003/070755 A2	08-28-2003	SYNT:EM		Abstract only
	125	WO 2004/082629 A2	09-30-2004	Albany Molecular Research, Inc.		
	126	WO 2004/096236 A2	11-11-2004	Gilead Sciences, Inc.		
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	128	WO 2005/021028 A1	03-10-2005	Hijikata et al.		
	129	WO 2005/046575 A2	05-26-2005	Signature Pharmaceuticals, LLC		
	130	WO 2005/097164 A2	10-20-2005	Waldmeier		
	131	WO 2006/005580 A1	01-19-2006	Novartis AG		
	132	WO 2006/005610 A1	01-19-2006	Novartis AG		
	133	WO 2006/014872 A2	02-09-2006	AMR Technology, Inc.		
	134	WO 2006/063470 A1	06-22-2006	Isotechnika Inc.		
	135	WO 2006/066416 A1	06-29-2006	Isotechnika Inc.		
	136	WO 2006/071618 A1	07-06-2006	Novartis AG		
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
	137	AEBI et al., "Synthesis, Conformation, and Immunosuppressive Activities of Three Analogues of Cyclosporin A Modified in the 1-Position," <i>Journal of Medicinal Chemistry</i> 33(3):999-1009 (1990)				Abstract only
	138	AGATHOS et al., "Enhancement of Cyclosporin Production in a Tolypocladium inflatum Strain After Epichlorohydrin Treatment," <i>Journal of Biotechnology</i> 13(1):73- 81 (1990)				Abstract only
Examiner Signature				Date Considered		

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	139	AGATHOS et al., "The Fungal Production of Cyclosporins," <i>Annals of the New York Academy of Sciences</i> , 506(Biochem. Eng. 5):657-662 (1987)			Abstract only
	140	ALBERG et al., "Structure-Based Design of a Cyclophilin-Calcineurin Bridging Ligand," <i>Science</i> (Washington, DC, United States) 262(5131):248-250 (1993)			Abstract only
	141	ANDRES et al., "Interaction of Lead(II) With Highly-Dentate Linear and Cyclic Polyamines," <i>Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry</i> (23):3507-3513 (1972-1999) (1993)			Abstract only
	142	ANGELL et al. "Innovation and Perspectives in Solid Phase Synthesis & Combinatorial Libraries: Peptides, Proteins and Nucleic Acids--Small Molecule Organic Chemical Diversity, Collected Papers," in Epton, ed. <i>International Symposium</i> , 5th, London, Sept. 2-6, 1997 (1999), Meeting Date 1997, Mayflower Scientific Ltd.: Kingswinford, pp. 135-138			Abstract only
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	149	BENCINI et al., "Synthesis and Ligational Properties of the Two Very Large Polyazacycloalkanes [33]aneN11 and [36]aneN12 Forming Trinuclear Copper(II) Complexes," <i>Inorganic Chemistry</i> 27(1):176-180 (1988)			Abstract only

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				Examiner Name	Marcela M. Cordero Garcia
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	150	BENCINI et al., "Thermodynamic and Structural Aspects of the Interaction Between Macrocyclic Polyammonium Cations and Complexed Anions," <i>Inorganic Chemistry</i> 31(10):1902-1908 (1992)			Abstract only
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	154	BROOKS et al., "Preparative Chromatographic Purification of Cyclosporine Metabolites," <i>Clinical Chemistry</i> (Washington, DC, United States) 39(3):457-466 (1993)			Abstract only
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	196	HUBLER et al., "Synthetic Routes to NETXaa4-Cyclosporin A Derivatives as Potential Anti-HIV I Drugs," <i>Tetrahedron Letters</i> 41(37):7193-7196 (2000)			Abstract only
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				First Named Inventor	Molino
				Group Art Unit	1654
				Examiner Name	Marcela M. Cordero Garcia
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	229	PAPAGEORGIOU et al., "Anti HIV-1 Activity of a Hydrophilic Cyclosporine Derivative With Improved Affinity to Cyclophilin," <i>Bioorganic & Medicinal Chemistry Letters</i> 6(4):497 (1996) [Erratum]			Abstract only
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	240	POHL et al., "Crystal Structures of Two Modifications of [3,O-Didehydro-MeBmt1,Val2]Cyclosporin and Comparison of Three Different X-Ray Data Sets," <i>Helvetica Chimica Acta</i> 78(2):355-366 (1995)			Abstract only
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	254	SHEVCHENKO et al., "Synthesis of Tritiated Cyclosporin A and FK-506 by Metal-Catalyzed Hydrogen Isotope Exchange," <i>Journal of Labelled Compounds & Radiopharmaceuticals</i> 47(7):407-414 (2004)			Abstract only
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	262	THERN et al., "Triphosgene as Highly Efficient Reagent for the Solid-Phase Coupling of N-Alkylated Amino Acids-Total Synthesis of Cyclosporin O," <i>Tetrahedron Letters</i> 43(28):5013-5016 (2002)			Abstract only
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